

L 12828-65 EWT(m)/EWP(d) AFETR/SSD/ADEC(a)/ASD(a)-5/ASD(p)-3/AEWL/BSD/ESD(g)
ESD(t)/SSD(b) JD/JG S/0057/64/034/009/1705/1709
ACCESSION NR: AP4045284

AUTHOR: Lebedev, M.A.

TITLE: Development of a low voltage cesium arc

SOURCE: Zhurnal tehnicheskoy fiziki, v.34, no.9, 1964, 1705-1709

TOPIC TAGS: cesium vapor diode, cesium plasma, energy conversion, electric arc

ABSTRACT: The behavior of a low voltage hot cathode cesium arc was investigated because of its possible applications to heat to electricity conversion. The electrodes were 1.8 cm diameter polished stainless steel disks separated by 1 cm. The cathode was indirectly heated and its temperature was measured with a thermocouple. The apparatus was outgassed at 100°C above working temperature was measured with a thermocouple. The apparatus was enclosed in a double thermostat by means of which the arc chamber could be maintained at one temperature, while a side tube containing liquid cesium was maintained at another. Current-voltage characteristics and photographs of the luminous phenomena are presented for operation at an anode temperature of 350°C, cathode temperatures of 500 to 700°C, and cesium pressures ranging from 6×10^{-4} to 2.3×10^{-2} mm Hg. With a ca-

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ACCESSION NR: AP4045284

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thode temperature of 700°C, the characteristic had a flex point at an anode potential of about 3 V, and at this point a "very thin" luminous layer appeared at the anode. The anode potential continued to increase with increasing current until it suddenly dropped to slightly over 1 V and the current increased by a factor 100 to approximately 1 A. By employing a sufficiently large ballast resistance it was possible to obtain stable operation on the negative resistance portion of the characteristic and to photograph the luminosity. It was found that a luminous sphere appeared on the anode at the maximum anode potential. As the current increased and the anode potential decreased this sphere grew in size and detached itself from the anode, whereupon the anode luminosity disappeared. The luminous sphere continued to grow and finally filled the interelectrode region. Luminous spheres have previously been reported in cesium arcs; the contribution of the present work is the proof that they occur on the negative resistance portion of the characteristic. With a 500°C cathode the phenomena were slightly different. The anode potential rose above the ionization potential of cesium and a glow discharge was formed. A sphere of glowing plasma was formed in this case also, but the anode glow did not cease when the luminous sphere detaches itself from the anode. "In conclusion, the author expresses his gratitude to Prof. V. N. Glazanov for his constant interest in the work and I. P. Stakhanov for discussion" Orig.art.has: 3 figures and 2 tables.

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"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

L 12828-65

ACCESSION NR: AP4045284

ASSOCIATION: none

SUBMITTED: 01Feb64

SUB CODE: EM,EC

NR REF Sov: 003

ENCL: 00

OTHER: 001

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

LEBEDEV, M. A.

Development of a low-voltage arc in cesium vapors. Zhur. tekhn. fiz.
34 no. 9: 1705-1709 S '64. (MIRA 17.15)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

STEPANOV, A. S.; STAKHANOV, I. P.; GUS'KOV, Yu. K.; KASIKOV, I. I.; PASHCHENKO, V. P.;
MAYEV, S. A.; LEBEDEV, M. A.

"State of the investigations into physical processes in thermionic converters."

report to be presented at Intl Conf on Thermionic Electrical Power Generation, London,
20-24 Sep 65.

USSR State Comm for Applications of Atomic Energy, Moscow.

L 27476-66 EWT(1) IJP(c) AT
ACC NR: AT6008419

SOURCE CODE: UR/3158/65/000/018/0001/0008

AUTHOR: Gus'kov, Yu. K.; Kiryushchenko, A. I.; Lebedev, M. A.; Morozova, G. G.

ORG: None

TITLE: Measurement of electron temperature in a cesium low voltage arc (Brief report)

SOURCE: Obninsk. Fiziko-energeticheskiy institut. Doklady, no. 18, 1965.
Izmereniye elektronnoy temperatury v tseziyevoy nizkovol'tnoy duge, 2-8

TOPIC TAGS: cesium plasma, arc discharge, electron temperature, recombination radiation

ABSTRACT: The authors present preliminary results of the measurements of the electron temperature in a low voltage arc in cesium vapor with zinc impurity taken over the recombination continuum. The measurements were made in a discharge chamber with the electrodes made of stainless steel of 18 mm diameter. The electrodes were indirectly heated. The gap was 6 mm. A detailed description of an analogous discharge chamber was published earlier (ZhTF v. 34, No. 8, 1951,

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ACC NR: AT6008419

1964). The measurements were made at low cesium vapor pressure (0.1-1 Torr). The corresponding zinc vapor pressure ranged from 10^{-5} to 5×10^{-4} Torr. The measurements were made in the 5D continuum with an ISP spectrograph, using a photographic recording and microphotometry technique. Measurements at 3.0 amp discharge current and cathode and anode temperatures 1100K and 800K respectively, with a cesium vapor pressure 0.1 Torr show a maximum in the electron temperature (~ 4000 K) at a distance of the order of the mean free path of the electron from the cathode (6×10^{-2} cm). The electron temperature then drops rapidly to about 2000K, but increases again near the anode. With increasing pressure the maximum shifts toward the cathode. A brief analysis shows that the electron temperature near the cathode can in fact not be uniquely defined, since there is no Maxwellian distribution. This is confirmed also by probe measurements. The rise in the temperature near the anode is attributed to measurement errors. In the rest of the gap the electron temperature is practically uniform and differs somewhat from probe measurements. The authors thank I. P. Stakhanov and I. I. Kasikov for continuous interest in the work. Orig. art. has: 3 figures and 1 formula.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 004/ OTH REF: 001

Card 2/2 BIG

L 53642-65 EWT(1)/EPF(n)-2/EWG(m)/EPA(w)-2 Pz-6/Po-4/Pab-10/Pi-4 IJP(c)
WW/AT

ACCESSION NR: AP5013369

UR/0207/65/000/002/0041/0046

AUTHOR: Lebedev, M. A. (Moscow)

TITLE: Investigation of a low-temperature plasma in a low-voltage arc

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1965, 41-46

TOPIC TAGS: low energy cesium plasma, cesium plasma, thermionic energy conversion, ignited mode, discharge mode

ABSTRACT: An investigation was made of the electron temperature and distribution in a cesium plasma of a low-voltage arc discharge at pressures of 5×10^{-3} to 5×10^{-1} mm Hg and values of the discharge current of 1 to 3 amp. The double probe method was used for measurements at six points along the axis of the 9.8 mm interelectrode spacing. The temperature of the cathode and the anode was maintained at 700°C in all the experiments. At a discharge current value $I_d = 1.0$ amp, the electron temperature was found to be inversely proportional to pressure; it was highest at the cathode, then slowly decreased in the direction of the anode. A 25 to 30% energy loss

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within the gap was attributed to inelastic collisions with atoms and the braking effect of the electric field. The ignition potential necessary to sustain the discharge current at 1.0 amp decreased rapidly with increasing pressure, attained its minimum at $p = 0.55$ mm Hg, and then slowly increased. At low cesium pressures an increase in the discharge current from 1.0 to 2.0 amp brought about an increase of T_e from 2400 to 3650K at a distance of 0.7 mm from the cathode. If pressure was increased along with the discharge current, the corresponding increase of T_e slowed down. The maximum dependence of the electron concentration on pressure in all experiments was at a distance of 2 mm from the cathode; pressure has virtually no effect on concentration in the interval from 4 to 9 mm. It is concluded that ions are formed in the interelectrode spacing by collisions of cesium atoms in excited states, i.e., that the mechanism of ion formation has a step-like character. Orig. art. has: 8 figures. [ZL]

ASSOCIATION: name

SUBMITTED: 02Jul64

ENCL: 00

SUB CODE: ME, EM

NO REF Sov: 005

OTHER: 007

ATD PRESS: 4013

Card 2/2 000

L 49243-65 EWT(1)/EPA(s)-2/EWT(m)/EPF(n)-2/EWP(t)/EWP(b) Pt-7/Pu-4 IJP(c)

JD/WW/JG
ACCESSION NR: AP5010814

UR/0057/65/035/004/0751/0758

AUTHOR: Bondarenko, I.I.; Gus'kov, Yu.K.; Lebedev, M.A.

TITLE: Investigation of the influence of a transverse magnetic field on a
low-voltage cesium vapor arc

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 4, 1965, 751-758

TOPIC TAGS: cesium vapor diode, transverse magnetic field

ABSTRACT: The authors have investigated the effect of a transverse magnetic field (up to 370 Oe) on the operation of low-voltage cesium vapor arc between hot stainless steel electrodes. The electrodes were hollow cylinders 18 mm in diameter, and their closed ends were separated by 6 mm. The electrodes were heated by internal nichrome heaters and the temperatures of the ends were measured with thermocouples. In most of the experiments the cathode temperature was 800°C and the anode temperature was 350°C. The tubes were baked out on the pumps and sealed off at $1-2 \times 10^{-7}$ mm Hg. A tube was discarded when its ignition and burning potentials began to increase. The cesium vapor pressure was controlled by heating a branch tube containing cesium. The magnetic field was produced by two 14 cm

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ACCESSION NR: AP5010814

diameter coils separated by 14 cm. The ignition potential and the current-voltage characteristics were determined as functions of the cesium vapor pressure and magnetic field strength; the results are presented graphically and discussed at some length. For cesium pressures above the critical value good agreement was found with the theory of R.Haefer (Acta Physica Austriaca, 7, No. 1, 52, 1953) when the ionization energy of cesium was assumed to be 1.35 eV, which is close to the excitation energy of an excited cesium atom. This agreement is regarded as further evidence that ionization of cesium in the low-voltage arc proceeds in a stepwise manner. Significant deviations from the theory were observed at low pressures. "In conclusion, the authors express their gratitude to Academician A.I. Leypunskiy of the Ukrainian SSR Academy of Sciences, V.P. Pashchenko, I.P. Stakhanov, and A.S. Stepanov for discussions." Orig. art. has: 8 formulas and 10 figures.

ASSOCIATION: None

SUBMITTED: 06Jun64

ENCL: 00

SUB CODE: ME

MR REF SOW: 005

OTHER: 001

sr
Card 2/2

LEBEDEV, N.I. (Moskva)

Study of a low-temperature cesium plasma in a low-voltage arc. :
(MIRA 18,7)
PMTF no. 2;41-46 Mr-Ap '65.

L 28475-66 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) AT/JD

ACC NR: AP6013134

SOURCE CODE: UR/0057/66/036/004/0753/0755

82

AUTHOR: Gurevskov, Yu.K. Kiryushchenko, A.I.; Lebedev, M.A.; Morozova, G.A.

80

B

ORG: none

TITLE: Measurement of the electron temperature in a low-voltage cesium arc

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 4, 1966, 753-755

TOPIC TAGS: arc discharge, cesium, zinc, electron temperature, spectrometry

ABSTRACT: The authors have determined electron temperatures in 3A low-voltage arcs burning in a mixture of cesium and zinc vapors in the 6 mm gap between 18 mm diameter hot stainless steel electrodes, by measuring the intensity of the 5D recombination continuum. The cesium pressure was varied from 0.1 to 1 mm Hg and the zinc pressure from 10^{-5} to 5×10^{-4} mm Hg by adjusting the temperature of a side tube containing the metals. The cathode and anode temperatures were 1100 and 800 °K, respectively. The arc could be imaged on the spectrometer slit with the latter either parallel or perpendicular to the axis of the arc. A field of view stop assured a linear resolution of 0.2 mm. In the low pressure (0.1 mm Hg) arc the electron temperature was maximum (4000°K) at a distance from the cathode of the order of an electron free path (0.6 mm), dropped rapidly to about 2000 °K, and rose somewhat near the anode. As the pressure was increased the position of the electron temperature maximum shifted closer to the cathode, and in the highest pressure arc the temperature was constant at about

UDC: 533.9.07

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ACC NR: AP6013134

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2000 °K over the full length of the gap. The temperature rise observed near the anode is ascribed to experimental error due to the low intensity of the recombination radiation from this region. The electron velocity distribution could not be; Maxwellian at the location of the observed temperature maximum near the cathode, and the concept of electron temperature becomes meaningless for this region. The electron temperature at 1.8 mm from the cathode in the 0.1 mm Hg arc decreased from 1850 °K on the axis of the arc to 1725 °K at 2 mm from the axis. The intensity of the recombination radiation at greater distances from the axis was too low for accurate measurement. The authors thank I.P.Stakhanov and I.I.Kasikov for their interest in the work. Orig. art. has: 2 formulas and 3 figures.

SUB CODE: 20 SUBM DATE: 21May65 ORIG.REF: 005 OTH REF: 001

Card 2/2 (C) 8

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

LEBEDEV, M. A., Lt. Col., Med. Service.

"Hematopoiesis with an Imperfection in the Cardiovascular System,"
Klin. Med., 26, No. 1, 1948.

Chair of Physical Therapy of the Med. Acad. im. S. M. Kirov,

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

LEBEDEV, M. A.

Lebedev, M. A. - "Gonadopause during a deficient cardiovascular system," Sbornik trudov (Voyen.-med. akad. im. Kirova), Vol. III, 1949, p. 126-31

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

LEBEDEV, M-A

111

USSR.

The manufacturing of ceramic pipes from local clays in Lengersk (Kazakh. S.S.R.). A. I. Nagornyi, V. E. Prokhorov, M. A. Lebedev, L. A. Khokhol'kova, and O. A. Mikhal'yants. *Vestn. Akad. Nauk Kazakh. S.S.R.* 11, No. 12 (Whole No. 117), 63-71 (1954) (in Russian). Since 1953 the ceramic plant in Lengersk (Kazakh. S.S.R.) has been making the ceramic pipes from local clays. The clay is of refractory variety, gray in color, with inclusions of calcite, gypsum, and pyrite. Mineralogically, they are the mica dispersed by homogeneous minerals of ilmen and monazite types. Chemically the clays are classified as the smectic type. The clay on drying, grinding, and mixing with water has satisfactory molding properties. Phys.-chem. properties are: clay of medium plasticity, tensile strength 7.1 kg./sq.cm., compression strength 40.7 kg./sq.cm. (for air-dry samples), shrinkage on drying 8.1%. The temp. of sintering is 1100°. The properties of dried or dried samples: absorption in percent after sintering at 1100°: 15.2%, 1040°: 11.3%; 1070°: 5.1%; 1100°: 3.1%; shrinkage in percent after sintering at 1100°: 8.1%, 1040°: 11.0%; 1070°: 5.1%; 1100°: 3.1%; the compressive strength after sintering at 1100° is 540 kg./sq.cm.; at 1040°: 1470 kg./sq.cm. The refractoriness of clay is 1400°. The interval between the sintering temp. and refractoriness is too small and is favorable for economic purposes. A. Shashan

KUZNETSOV, Nikolay Mikhaylovich; LEBEDEV, Mikhail Alekseyevich;
YEFREMOW, V.S., nauchnyy red.; VLASOVA, Z.V., red.; TSAL, R.K.,
tekhn.red.

[Combustion chambers of marine boilers operating on oil] Topochnye
ustroistva sudovykh parovykh kotlov s neftianym otopleniem. Lenin-
grad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1959. 206 p.
(MIRA 14:1)

(Boilers, Marine)

NOVAKOVA, D.I., dots., otv. red.; BKRIFOV, I.A., red.; KURNIK,
I.P., dots., red.; LEBEDEV, M.A., red.; NEMTSOV, V.I.,
red.

[A conference on the results of scientific research in
1962. Section of social sciences; abstracts of reports]
Nauchno-tehnicheskaiia konferentsiia po itogam nauchno-
issledovatel'skikh rabot 1962 goda. Sektsiia oboznche-
stvennykh nauk; tezisy dokladov. Moskva, 1.63. 28 p.
(MIRA 17:10)

1. Moscow. Moskovskii protekhnicheskiy institut.

39721-65

EWP(m)/EPR/EWT(1)/FCS(k)/EWA(d)/EWA(l) Pd-1 MM

UR/0373/65/000/001/0017/0023

ACCESSION NR: AP5010181

30

B

AUTHOR: Gilinskiy, S. M. (Moscow); Lebedev, M. G. (Moscow)

TITLE: Investigation of low supersonic flow over plane and axisymmetric bodies with detached shock wave

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 1, 1965, 17-23

TOPIC TAGS: supersonic flow, shock wave, detached shock wave, limiting line, sonic line, supersonic flow over sphere

ABSTRACT: A low supersonic flow of an ideal gas over plane and axisymmetric bodies with a detached shock is investigated. A method suggested by G. F. Telenin (Izvestiya AN SSSR, Mekhanika i mashinostroyeniye, no. 4, 1964) and consisting of the integration of gasdynamic equations is applied here to calculating supersonic flows of less than or equal to Mach 2 past bodies of various shapes (spheres and ellipsoids of revolution with axis ratios $\delta = 1$ and 2). The dependence of the reciprocal location of the limiting characteristic and a sonic line on the Mach number and body shape is considered for a

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L 39721-65

ACCESSION NR: AP5010181

sphere and ellipsoid in the Mach range from 1 to ∞ . The effects of body shape and M_∞ on the geometrical flow configuration, the variations in pressure distribution on the surface of a sphere, an ellipsoid with $\delta = 2$, and a circular cylinder are given in graphical form. The deviation of calculated values from accurate theoretical data at M_∞ less than or equal to 2 does not exceed 2%. The results are analyzed and compared with those of other numerical methods and with experimental data. The analysis shows that the calculation results obtained by Van Dyke and Gordon by the inverse method, which are treated as the numerical solution for a sphere, actually correspond to flows over bodies distinct from a sphere, and this causes a discrepancy in flow fields up to 10—15%. Orig. art. has: 10 figures, 3 formulas, and 2 tables.

[AB]

ASSOCIATION: none

SUBMITTED: 23Jul64

ENCL: 00

SUB CODE: ME

NO REF SOV: 004

OTHER: 005

ATD PRESS: 3229

Card 2/2

SOV/137-59-1-1665

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 221 (USSR)

AUTHOR: Lebedev, M. G.

TITLE: Novel Technological Processes of Hot Stamping Developed and Adopted by the NII Tavtoprom in Cooperation With Automobile Plants
(Novyye tekhnologicheskiye protsessy gor'vachey shtampovki,
razrabatyvayemyye vnedryevemyye N. Tavtopromom sovmestno s
avtomobilnymi zavodami.)

PERIODICAL: V sb.: Materialy Soveshchaniya glavn. metallurgov z-dov i in-tov
avtomob. prom-sti. Nr 4. Moscow, 1958, pp 46-67

ABSTRACT: The author examines novel technological processes and die designs employed in stamping of automobile forgings. The following operations are covered: Stamping of toothed gears; extrusion of forgings for shafts employed in accessory-drive transmission boxes; extrusion of the splined ends of idler drive shafts, steering knuckles, and cross-shaped members of universal joints; die rolling of blanks employed in forging of automobile repair tools. A typical assortment of die-forging equipment developed especially for automobile plants is described.

Card 1/1

M. Ts.

LEBFDEV, M.G.; SMUROV, A.M.

Peculiarities in the manufacture of forged bevel gear. Kuz.-shtam.
(MIRA 14:11)
proizv. 3 no.11:15-18 N '61.
(Forging) (Gearing, Bevel)

LEBEDEV, M.G.; SMUROV, A.M.

Press forming of groove bushes for stamping toothed pinions. Avt.
prom. 27 no.8:37-39 Ag '61. (MIRA 14:10)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy
promyshlennosti.
(Forging)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

KHUKHRIN, P.N.; LEBEDEV, M.G.; SMUROV, A.M.

Machining bevel gear blanks stamped with ready teeth. Stan.i
instr. 32 no.11:27-38 N '61. (MIRA 14:10)
(Gear cutting)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

LEBEDEV, M.G.; SMUROV, A.M.

Manufacture of master punches for the forging of forging-die
parts. Kuz.-shtam. proizv. 4 no.1:43-44 Ja '62.(MIRA 17:3)

S/182/62/000/006/002/004
D040/D113

AUTHORS: Lebedev, M.G., and Smurov, A.M.

TITLE: Gear forging die inserts produced by press forging

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 6, 1962, 8-12

TEXT: NIIAvtoprom and the ZIL and GAZ automobile plants have developed techniques for hot press forging die inserts used for producing gears by forging. Die sinking by this method has proved dependable, and is cheap compared to other mechanical means. Detailed engineering information includes: drawings of the die set, master punch and inserts; calculation of allowances; data on heating, preliminary swaging of blanks, final heat treatment and machining after forging. Inserts for only two gears are dealt with - the differential pinion of the ЗИЛ-164 (ZIL-164) truck, and the differential axle pinion of the ГАЗ-51 (GAZ-51) truck. Both are straight-tooth bevel gears. An insert is produced in 2-3 strokes of the master punch in a 1600 or 1500 t hot crank press from blanks of 3Х2В8 (3Kh2V8) steel. Friction screw presses may also be used; their

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S/182/62/000/006/002/004
D040/D113

Gear forging die inserts produced by press forging

comparatively large open die space permits using other tooling for press forging die cavities with helical and spiral teeth. The straight bevel die inserts are provided with shims changing the closed die space for forging other bevel gears. NIITAvtoprom has lately experimented on sinking die inserts with spiral teeth in a crank press; this is stated to be a new technique not employed in foreign practice. The experimental die set and the spiral-teeth inserts are illustrated. The first inserts had teeth pulled too deep into the cavity and had edges too deeply sheared off; this can be eliminated by proper allowance on the blanks. Replaceable master punches, connection pieces and bottom halves of the experimental die set permitted the geometrical shape of the produced die cavities to be varied. There are 8 figures.

Card 2/2

LEBEDEV, M.G.; SMUROV, A.M.

Establishing parameters and organizing the process of the stamping
of toothed automobile pinions. Avt.prom. 29 no.1:35-38 Ja '63.
(MIRA 16:1)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut
avtomobil'noy promyshlennosti.
(Sheet-metal work)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

GILINSKIY, S.M. (Moskva); LEBEDEV, M.G. (Moskva)

Low M-number supersonic flow past plane and axisymmetric bodies
following a shock wave. Izv. AN SSSR. Mekh. no.1:17-23 Ja-F '65.
(MIRA 18:5)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

L 57101-65 EWT(1)/EMP(m)/EWA(d)/EPR/FCS(k)/EWA(l) Pd-1 WH
ACCESSION NR: AP5016246 UR/0373/65/000/003/0182/0186

AUTHOR: Gilinskiy, S. M. (Moscow); Lebedev, M. G. (Moscow) 25
63

TITLE: Calculation of supersonic ideal gas flow past elliptic cylinders

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 3, 1965, 182-186

TOPIC TAGS: supersonic flow, ideal gas flow, transonic flow, gas parameters distribution, sonic line, detachment distance, axisymmetrical flow, pressure distribution

ABSTRACT: The results of numerical calculations on an electronic digital computer of a supersonic, ideal gas flow past elliptic cylinders having an axis ratio of $\epsilon = 0.5$ to 2.5, with $\gamma = 1.4$, in a range of free Mach numbers from 3 to ∞ are presented and analyzed. A method proposed by G. F. Telenin (Izvestia AN SSSR, OTN, Mekhanika i Mashinostroyeniye, no. 4, 1964) was used for calculating the flow in subsonic and transonic regions. The accuracy of calculations is evaluated and the effects of M_∞ and body shape on the geometric structure of the flow and distribution of gasdynamic parameters are investigated. It was found that variations of all gas parameters in the transonic zone were sharper here than in axisymmetrical flows, and this, in particular, makes it more difficult to use methods in which the approximation from shock wave to body is used. A detailed comparison of these results with those obtained by O. M. Belotserkovskiy in the case of circular cylinders by

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ACCESSION NR: AP5016246

the method of integral relations is presented and discussed. The distribution of values of parameters along the body is smooth and their approximation by polynomials of higher order (eighth or ninth, as in the present work) makes it possible to obtain numerical solutions of great accuracy. Orig. art. has: 9 figures and 5 formulas. [AB]

ASSOCIATION: none

SUBMITTED: 15Jan65

ENCL: 00

SUB CODE: ME

NO REF SOV: 004

OTHER: 001

ATD PRESS: 4036

Card 2/2

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

POLYAKOV, I.S.; LEBEDEV, M.G.; AKARO, T.I.

Standard technological processes in the production of forged
pieces for the journal of an automobile rotating cam. Kuz.-shtam.
proizv. 7 no.2:5-11 F '65. (MIRA 18:4)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

GOLINSKY, S.M. (Sergeant Major), USA. (Retired)

Calculating supersonic inviscid gas flow about elliptical cylinders.
Tav. AN 350m. Makh. no.3. 192-162. Noy. de 165.
(MTRA 18:7)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

ANDREYEVA, O.S.; LEBEDEV, M.I.

Special features of β -rays in work with metallic uranium. Med. rad.
4 no.5:58-62 My '59. (MIEA 12:7)
(INDUSTRIAL HYGIENE
pref. of β -ray hazards in uranium workers (Rus))
(URANIUM, inj. eff.
 β -ray hazards in uranium workers, prev. (Rus))

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

LEBEDEV, M. I.

"Age and functional peculiarities of the digit of the pelvic extremity of horse",
(Lecturer, Department of Normal Anatomy of Animals), Collected Works No. 14, of
Leningrad Veterinary Institute USSR Ministry of Agriculture, P 183, Sel'khozgiz, 1954.

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

LEBEDEV, M. I. and BOGDASHEVA, A. V. (CVS)

"Age modifications in the calcium and phosphorus content in the bones of the pelvic extremity in horses", (Lecturer, Biochemistry Department and the Department of Normal Anatomy), Collected Works No. 14, of Leningrad Veterinary Institute USSR Ministry of Agriculture, P 192, Sel'khozgiz, 1954.

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

ZHEDENOV, Vladimir Nikolayevich [deceased]; LEBEDEV M.I., prof.,
red.; AKAYEVSKIY A.I., prof., red.; BOGOLYUBSKIY, S.N.,
prof., red., PETROVSKAYA, L.P., red.

[Anatomy of domestic animals in 3 parts] Anatomia do-
mashnikh zhivotnykh v 3-kh chastiakh. Moskva, Vysshiaia
shkola. Pt.2. 1965. 410 p. (MIRA 18:7)

Name: LEREPEV, Mikhail Ivancovich

Dissertation: Age and functional changes of certain organs of the pelvic extremity of draught horses

Degree: Doc Biol Sci

Affiliation: /Not indicated/

Defense Date, Place: 7 Jun 56, Council of Leningrad Vet Inst

Certification Date: 1 Jun 57

Source: EMVO 16/57

LEBEDEV, Mikhail Ivanovich, personal'nyy pensioner

Echo of the century; on the 50th anniversary of the Lena events,
Sov. profsciuz 18 no.7:21-22 Ap '62. (MIRA 15:3)

1. Chlen Kommunisticheskoy partii Sovetskogo Soyuza s 1914 goda.
(Bodaybo District--Gold mines and mining--Strikes and lockouts)

KRZHIZHANOVSKIY, G.M., akademik; AYVAZYAN, V.G.; ALAMPIYEV, P.M.;
BUYANOVSKIY, M.S.; VARTAZAROV, S.Ya.; VEYTS, V.I.; GUVIN, F.F.;
DYMITSRASHKO, N.V.; KARAULOV, N.A.; KOCHARYAN, G.A.;
KRITSKIY, S.H.; LEBEDEV, M.M.; MURZAYEV, E.M.; FEL'DMAN, M.P.;
SHCHENGELIYAN, P.G.; ERISTOV, V.S.

Sukias Efremovich Manaserian; obituary. Izv.AN SSSR. Ser.geog.
no.5:143-144 S-0 '56. (MLRA 9:11)

(Manaserian, Sukias Efremovich, 1881-1956)

*Lebedev**17:11*

AUTHORS:

Veyta, V. I., Popkov, V. I., 5/105/60/000/04/022/024
Markovich, I. M., Zakharin, A. G., B007/5000
Tolstov, Yu. G., Mikitin, B. I., Karaulov, N. A., Toleshov, B. A.,
Gurevich, B. A., Lebedev, M. M., et al.

TITLE:

On the 70th Birthday of N. N. Krachkovskiy

PERIODICAL:

Elektrичество, 1960, Nr 4, p 93 (USSR)

TEXT: Nikolay Nikolaevich Krachkovskiy is one of the oldest Soviet power engineers. He started his activities in 1916 after finishing his studies at the elektromekhanicheskoye odeleniye Petrogradskogo politekhnicheskogo instituta (Department of Electromechanics of the Petrograd Polytechnic Institute). From 1922 he worked at the planning and construction of electric networks in the Volkhovstroy, Dneprostroy, and Sredvolgostroy. He worked as an engineer in a leading position in the eastern regions of the USSR from 1942 to 1944. From 1944 to 1946 he was Director of the sektor sistem Leningradskogo odeleniya Gidroenergoprojekta (Sector of Networks of the Leningrad Branch of the All-Union Trust for the Design and Planning of Hydroelectric Power Plants and Hydroelectric Developments). His scientific and teaching activity began in 1950 at the Politekhnicheskii Putey soobshcheniya (Polytechnic Institute of Railroads), at the Leningradskiy politekhnicheskii institut (Leningrad Polytechnic

Card 1/2

Institute), and the Akademiya nauk SSSR (Academy of Sciences of the USSR). Since 1950 he was in a leading position at a Planning Institute, directing simultaneously research work at the Energeticheskiy institut AN SSSR (Institute of Power Engineering of the AS USSR). Since 1954 he has devoted himself entirely to scientific work. He graduated as a Candidate in 1946. In 1953 he was approved as a Senior Scientific Collaborator of the Institute of Power Engineering of the AS USSR in the field of "Electric Networks". He published over 50 papers in the periodicals "Elektrичество", "Elektricheskiye stantai", "Investiya AN SSSR", et al., and made a number of inventions. There is 1 figure.

Card 2/2

LEBEDEV, M.M.; BONDARENKO, V.N.

Age and origin of metamorphic rocks in central Kamchatka.
Sov.geol. 5 no.11:98-105 N '62. (MIRA 15:12)

1. Kamchatskoye rayonnoye geologorazvedochnoye upravleniye.
(Kamchatka—Rocks, Crystalline and metamorphic)

LEBEDEV, M. M.

At the plenary meeting of the conference of the Power Establishments of the Academies of Sciences of the Union Republics and of the Affiliates of the Academy of Science, USSR, the following paper was presented by Candidate of Technical Sciences M. M. Lebedev on "On certain problems of the Sevan electrical system".

SO: Elektrичество, No. 9 Moscow, Sept. 1947 (U-5534)

LEBDEV, M.M.

Topology in the analysis and synthesis on the commutation systems
of distributing devices. Report no. 1: Principles of the method.
Dokl. AN Arm. SSR 9 no. 3:97-100 '48. (MIRA 9:10)

1. Laboratoriya elektrotekhniki Akademii nauk Armyanskoy SSR, Yerevan.
Predstavleno A.G. Nazarovym.
(Electric circuits) (Topology)

LEBEDEV, M. M.

Lebedev, M. M. - "A plan of increased flexibility for multifeeder distribution layouts," Doklady (Akad. nauk Arm. SSR), Vol. IX, No. 5, 1948, p. 199-201 — Summary in Armenian — Bibliog: p. 201

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

LEBEDEV, M. M.

USSR/Electricity Electrical Standards Voltage

May 49

"Comments on A. A. Glazunov and S. A. Gelikonskiy's Article, 'Improved Scale of Standard Voltages in the 10-220 Kilovolt Range,'" Prof S. A. Burguchev, M. M. Lebedev, Engr, I. S. Bessmertnyy, Engr, Ya. M. Bol'sham, Engr, G. S. Pliss, Cand Tech Sci, 3 pp

"Elektrichestvo" No 5

Burguchev believes authors are not free from usual errors prevalent in analysis of intermediate (10-35 kv) systems (primarily for rural areas), i.e., lack of concrete examples or comparisons. But article is very valuable theoretically. Considers further investigations necessary before changes can be justified. Lebedev has no objections to author's conclusions on 154 kv, but sees no factual basis in article for excluding other possibilities. Considers article valuable as first stage in program for organizations concerned. Agrees that 20-kv standard is desirable for rural electrification. Bessmertnyy states that article does not take into account developmental aspects of existing 6-kv municipal networks; therefore, 20-kv standard requires further analysis. Pliss notes that authors' chief variation from 1941 approved standards is 154 kv. Recommends that "Elektrichestvo" publish full project on standards developed by Min of Elec Power Plants, and then draw conclusions (continued in "Elektrichestvo," No 6, 1949).

PA 55/49T34

LEBEDEV. M. M.

Lebedev. M. M. "The use of topology for the analysis and synthesis of commutation systems for distribution equipment, 11. The power of a sectional complex as a criterion of the flexibility of a commutation system", Doklady (Adad. nauk Arm. SSR), Vol. X No. 3, 1949, p. 111-14, (Resume in Armenian).

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

LEBDEV, M. M.

"Application of Topology to Analysis and Synthesis of Computational Schemes of Distributive Constructions," Usp. Mat. Nauk Vol. 6 No. 4 (44), pp 193-220, 1951.

U-1635, 16 Jan 52

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

ALEKSEYEVSKIY, V.V., kandidat tekhnicheskikh nauk; IOSIF'YAN, A.G.,
otvetstvennyy redaktor; LEBEDEV, M.M., otvetstvennyy redaktor;
ARZUMANIAN, G.A., redaktor; SAROYAN, P.A., tekhnicheskiy redaktor.

[Use of bimetals in the construction of electric apparatuses]
Primenenie bimetallov v elektroapparatostroenii. Erevan, Izd-vo
Akademii nauk Armianskoi SSR, 1953. 253 p. (MLRA 8:2)
(Electric apparatus and appliances)

1. LEBEDEV, M. M., Eng.
2. USSR (600)
4. Krachkovskii, N. N.
7. Remarks to N. N. Krachkovskii's article: "Some problems of commutation schemes of high voltage networks." Elektrichestvo No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

LEBEDEV, M. M.

Electrical Engineering

Dissertation: "Electric Power Problems of High-Mountain Hydroelectric Power Systems."
Cand Tech Sci, Power Engineering Inst imeni G. M. Krzhizhanovskiy, Acad Sci USSR, 18
Mar 54. (Vechernaya Moskva Moscow, 8 Mar 54)

SO: SUM 213, 20 Sep 1954

L-135 11/20/68

Subject : USSR/Electricity AID P - 4128
Card 1/2 Pub. 27 - 15/33
Author : Lebedev, M. M., Kand. Tech. Sci.
Title : Electric connection diagrams of hydroelectric power stations. (Discussion of the article of N. N. Krachkovskiy, this journal, No. 11, 1953, Nos. 1 and 5, 1955).
Periodical : Elektrичество, 12, 63, D 1955
Abstract : The author agrees in principle with most of the statements and suggestions which A. A. Krachkovskiy made in his article: "Electric Connection Diagrams of Hydroelectric Power Stations". He criticizes the failure in not developing further the statement in an earlier article that the most important factor determining the selection of the connection diagram consists in the proper selection of the way of connecting the station with the power system. One of the first tasks in designing such power systems is the working out of sufficiently clear quantitative

Elektrichestvo, 12, 63, D 1955

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AID P - 4128

requirements to be expected from the projected scheme.
One Soviet reference, 1951.

Institution : Power Engineering Institute of the Academy of Sciences,
USSR.

Submitted : No date

LEBEDEV, M. M.

PHASE I BOOK EXPLORATION

SCW/3618

Akademiya nauk Kirgizskoy SSR

Izdatiya Seriya Yestestvennykh i tekhnicheskikh nauk, tom 1. vyp. 1
(News. Series on Natural and Technical Sciences, Vol 1, No. 1)
Frants, 1959. 164 p. 500 copies printed.

Ed.: P.T. Kassirin; Tech. Ed.: M.G. Anokhina.

PURPOSE: This book is intended for research scientists and teachers in institutes of higher education who may be interested in developments and research trends in various scientific fields.

COVERAGE: The book contains 12 articles by persons affiliated with the Academy of Sciences Kirgiz SSR on studies in physical chemistry, industrial chemistry, applied physics (blasting dynamics), electric power engineering, electronics, ergonomics, metallurgy, pure mathematics etc. A bibliography of 957 publications from the Academy includes works on history, archaeology, economics, linguistic, literature, ecology, biology, geology, zoology, medicine, medicine) and technology. No bibliographies are mentioned.

REFERENCES: G.B., N.P., Shevchenko, and Z.A. Sadrinikovaya, Pur-
Sientific Determination of Feces 43Zakharov, K.P., Determination of the Saturation Coefficient of
Fruit Molasses 53Danichev, P.J., and M.K. Termetchikov, Effect of the Weight of an
Explosive Charge on the Scattering Spread of Ground Particles
During Blasting 57Lebedev, M.M., Electric Power Systems in High Mountainous Regions 69
TimeFilippov, N.A., Methods of Transformation of Time Functions With
Time 85Belakov, V. Ya., Indices of Moisture Adequacy in Kirgiz Pasture
Lands 95Buyko, V.M., N.A. Imanlyyeva, A.V. Poltavskiy, and Yu.S. Terminskiy,
X-Ray Study of the Thermal Effect on Steel Samples Hardened After
Surface Heating by High-Frequency Current 111Eshenuk, M.M., A.V. Poltavskiy, and Yu.S. Terminskiy, X-Ray Study
of Fragmentation and Grain Deformations in Steel During Torsion 123Imanlyyev, M., General Boundary Value Problem for a Nonlinear
Integrodifferential Equation With Small Parameter at the Highest
Derivative 129Berman, L.M., and M.M. Grasimova, Bibliography of Publications
of the Kirgiz SSR Academy of Sciences in 1957 145

AVAILABLE: Library of Congress (Q 60.A516A2)

17

L E B E D E Y M . M .

807/282

PAGE 1 BOOK INFORMATION

Богомолов, П.Н., В.И. Ворта, Б.А. Гарвич, В.И. Денисов, А.Г. Захарин,
Б.А. Еремин, Л.Д. Колесов, Е.Н. Красноборский, С.Н. Митрохин, М.М.
Лебедев, Ю.П. Лонгинов, Н.П. Мендел, А.Г. Некрасов, О.Г. Розановский,
С.Е. Смирнов.

Монография построения единой энергетической системы СССР (Базис
Проблемы в Планировании и Моделировании Энергетической Системы СССР
Во главе с Планированием единой энергетической системы СССР.)
Москва, 1979. 176 с. Картонная обложка. Тираж 2500 копий, printed.

Союзное Агентство Академии наук СССР, Енергетическая Институт.

Редактор: Г.А. Красноборский, Академик и В.И. Ворта, Corresponding
Member, USSR Academy of Sciences; Tech. Ed.: Б.Д. Мартынич.

Содержание: This book is intended for government, planning circles, scientific
research organizations and others interested in the electrification of the

country. The book contains the principal problems of a unified power system.
Over the years the USSR has a basis for a program of government planning in that field.
It is the result of several years of study conducted mainly at the Power
Engineering Institute of the Academy of Sciences, USSR, in cooperation with
power engineering institutes of the individual Soviet Republics, universities
and learned societies, and is close cooperation with the Gospplan, USSR.
These studies are concerned with basic problems of a scientific nature and
problems of technical policy for the prospective development of a unified
electric power system in the USSR. The problems outlined are applicable
to the planned system reaches an output of 1000 billion kWh, which
is scheduled for 1970. One of the results of the plan is that since it
is possible to obtain higher installed capacities in a shorter time and
at lower capital outlays by the construction of steam turbine electric
power plants rather than hydroelectric ones, the emphasis is now on building
steam turbine plants with a simultaneous abandonment of hydro-power developments,
despite the more economical ones or those which are the only or the main
source of power in a given region or are dictated by other needs, such
as irrigation, river control, etc. Nuclear plants will play a steadily in-
creasing role in the development of a unified power system. Several problems
of a purely scientific and technical nature were presented by the study of a
unified power system. These problems include the application of high-
speed electronic computers for automatic control, regulation and protection
of the system, on increasing uses of semiconductors, the use of various types
of fuel, etc. These problems were presented in two earlier publications of
the Academy of Sciences: "Мощные ядерные электрические установки"
("Scientific issues of the USSR" [Scientific issues of the USSR] "Создание и Развитие
единой энергетической системы СССР" [Creation and Development
of Unified Power System in the USSR]) "Оценка влияния на гидроэнергетику
СССР 1-й и 2-й общенациональных ядерных энергетических систем" /

Lebedev, M. M.

TABLE I BOOK REPRODUCTION		807/2407
Absentee work 80%	Electrically insulating in. G.M. Kralishansky	
Printing methods: short-wave-electrostatic printing in. G.M. Kralishansky (Institute of Power Engineering) Moscow, 1959. 950 p. Price fully justified		
2,500 copies printed.		
Eds. or Publishing house: P. D. Arshavin, F. V. Dobrov, F. I. Gabov, and G. M. Kralishansky. Tech. Ed.: T. A. Frunzev; Editorial Board: A. V. Tarev, K. M. Koval'chik (Chairman), V. I. Popov (Tver'), Ed. Corresponding Member, Academy of Sciences USSR, V. I. Vozov, A. S. Prosviryakov, M. A. Sviridovich, V. T. Chumakov, N. M. Bogomolov, Candidate of Technical Sciences, N. K. Balin, Candidate of Technical Sciences, N. M. Lebedev, Candidate of Technical Sciences, and T. M. Rundtov.		
PURPOSE: This collection of articles is intended as a tribute to the memory of Academician G.M. Kralishansky.		
CONTENTS: The collection contains sixty articles by former students and coworkers of the deceased Academician. The articles deal with problems of a wide range of subjects in the field of power engineering: problems of the technical development of electrical and thermal power engineering, power engineering technology and the physics of combustion. No personalities are mentioned. References are given after most articles.		
Chernigov, G. Power Engineering and the Sciences of Power Engineering in Russia	22	
Altshul, A. A., D. A. Grulich, and V. I. Selivanov. Development of Electropower Engineering in Autonomous SSRs	23	
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Makarov, B. I. Developing Standardized Graphs of Reservoir Utilization for Several Hydropower Stations Operating in a Cascade Connected With the Water Economy	139	
Moustyrin, A. N. Calculated Equations and Indices for a Comparative Evaluation of the Power of Various Types of Extraction Hydrocondensing Type Turbines	145	
Levenshtain, G. B. Basic Principles of Joint (Parallel) Operation of District Heat-and-Power Stations in the Production of Thermal Energy	156	20

LEBEDEV, M.M.

Basic economic indices of long distance electric transmission with
intermediate connections, Obshch. energ. no.1:78-88 '59.

(MIRA 13:2)

(Electric power distribution)

LEBEDEV, M.M.; PERESLEGIN, Yu.A.

Concerning some problems of the effect of intersystem couplings
on the structure of consolidating systems. Obshch. energ. no.3:3-22
'60. (MIRA 14:3)

(Interconnected electric utility systems)

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CIA-RDP86-00513R000929020006-3

VOLKOVA, Ye.A.; LEREDEV, M.M.

Diagram of the power efficiency of intersystem coupling manipulations. Obshch. energ no.3:23-33 '60. (MIRA 14:3)
(Interconnected electric utility systems)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

VEYTS, V.I.; LEBEDEV, M.M., kand.tekhn.nauk; DENISOV, V.I., kand.ekonom.nauk;
ALIEGOV, M.M., inzh.; PERESLEGIN, Yu.A., inzh.

Joining of the consolidated electric power systems of the Siberian and
European U.S.S.R. Elektrichestvo no.2:1-9 F '60. (MIRA 14:3)
(Interconnected electric utility systems)

VEYTS, V.I.; POPKOV, V.I.; MARKOVICH, I.M.; ZAKHARIN, A.G.; TOLSTOV, Yu.G.;
NIKITIN, B.I.; KARAULOV, N.A.; TELESHEV, B.A.; GUREVICH, B.A.;
LEBEDEV, M.M.

Nikolai Nikolaevich Krachkovskii. Elektrichestvo no.4:93 Ap '60.
(MIRA 14:4)
(Krachkovskii, Nikolai Nikolaevich, 1890-)

LEBEDEV, M.M., kand.tekhn.nauk; FAYMSITEYN, E.G. (Krivoy Rog)

Principal trends in carrying out overall electrification.
Elektrichestvo no.5:73-74 My '61. (MIRA 14:9)

1. Energeticheskiy institut AN SSSR (for Lebedev).
(Electrification)

LEBEDEV M. M.

LYEVEDYEV, M.M.

30427

Vliyaniye usloviy kormlyeniya i soderzhaniya i myetoda podtura zhivotnykh na effektivnost' promyshlyennogo skryeshchivaniya. Trudy Pushkinskoy manuf. - isslyed. Laboraturii razvyedyeniya s.kh. zhivotnykh, vyp. 3, 1949, s. 25-34

SC: LETOPIS' No. 34

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

Л.Б.СЕЛЕВ. М.М.
БЕРЕЗДЕЙЕН, Н.Н.

30428

Последовательные определения у животных. Труды Пушкинской науч - исслед. Лаборатории
разведывания с. х. животных. вып. 3, 1949, с. 71-75

SCF LETOPIS' No. 34

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

LEBEDEV, M.M., prof.

Tenth Congress of Genetics. Zhivotnovodstvo 21 no.4:87-91
Ap '59. (MIRA 12:5)

1. Direktor Pushkinskoy laboratorii razvedeniya sel'skokhozyaystvennykh zhivotnykh.
(Montreal--Genetics--Congresses)

LIMBEDEV, M.M.

System of increased flexibility for multifeeder distributing devices.
Dokl. AN Arm. SSR. 9 no.5:199-201 '48. (MIRA 9:10)

I, Laboratoriya Elektrotehniki Akademii nauk Armyanskoy SSR, Yerevan. Predstavлено A.G. Iosifyanom.
(Electric circuits)

LEBODEV, M. M.

Lebedev, M. M. - "A study of internal indications in birds in connection with the results of their eating", Trudy Pichkinskoy nauch.-issled. laboratorii razvedeniya s.-ish. zhivotnykh, Issue 2, 1942, . 10-26.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1942).

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3

LEBEDEV, M. N.

Lebedev, M. N. - "Selective fertilization in bird raising", Trudy Fauna i inspeksiya nauch.-issled. laboratorii razvedeniya s.-kh. zhivotnykh, Issue 2, 1949, p.27-42.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020006-3"

LEBEDEV, M.M.

Polyspermatic fertilization in animals. Izv.Akad.nauk SSSR.Ser.
biol., Moskva no.3:63-72 May-June 1951. (CLML 20:9)

1. Pushkin Laboratory for the Breeding of Farm Animals and the
Department of Genetics of Leningrad State University imeni
A.A. Zhdanov.

LEBEDEV, M. M.

Hybridization and double mating in practical animal husbandry. Koskva, Gos. izd-vo sel'khoz. lit-ry, 1952. 166 p.

1. LEREDEV, M. M.; PITKYANEN, I. G.
 2. USSR 600
 4. Ovulation
 7. Effect of nervous irritation during the act of mating on the process of maturation and ovulation of the oviducts in pigs. Vest. Len. un, 7, No. 4, 1952.
- S
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

LEBEDEV, N. V.

"Methods of Increasing the Vitality of Agricultural Animals."
Dr Agr Aci, Leningrad Agricultural Inst, Min Higher Education USSR,
Leningrad, 1953. (KL, no 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55- Survey of Scientific and Technical
Dissertations Defended at USSR Higher Educational Institutions
(1A)

LEBDEV, M. M.

LEBDEV, M.M.; IVANOVA, Ye.N.

Variation of dominance of ingerited characteristics of the parents
in the progeny when mating the female with several males. Uch.zap.
Len.un. no.165:156-160 '53. (MLRA 7:7)

1. Laboratoriya genetiki na voprosakh kafedry genetiki i selektsii
(zaveduyushchiy kafedroy N.V.Turbin)
(Genetics)

DAVYDOV,S.G.; LEBEDEV,M.M.; BARANOVA,D.I.

Raising the butter-fat yield from East Frisian cattle by inter-varietal crossing and controlled rearing. Izv.AN SSSR. Ser.biol. no.4:84-94 Jl-Ag'55. (MIRA 8:10)

1.^{AS} Pushkinskaya nauchno-issledovatel'skaya laboratoriya razvedeniya sel'sko-khozyaistvennykh zhivotnykh
(Cattle breeding)

LEBEDEV, M.M.

Heterosis in animal breeding. Nauka i zhizn' 27 no.7:28-30 Jl
'60. (MIRA 13:7)

1. Direktor Pushkinskoy laboratorii razvedeniya sel'skokhozyays-tvennykh zhivotnykh.
(Heterosis)

LEBEDEV, M.M., prof., red.; YEMEL'YANOV, F.V., red.

[Increasing livestock production; recent developments in stockbreeding] Povyshenie produktivnosti sel'skokhoziaistvennykh zhivotnykh; novoe v razvedenii sel'skokhoziaistvennykh zhivotnykh. Pod obshchey red. M.M.Lebedeva. Moskva, Sel'khozizdat, 1961. 149 p. (MIRA 15:4)

1. Pushkin. Pushkinskaya laboratoriya razvedeniya sel'skokhozyaystvennykh zhivotnykh.
(Stock and stockbreeding)

LEBEDEV, M.M., prof., red.; MAGON, E.E., red.

[Heredity and variability in farm animals; collection of scientific papers] Nasledstvennost' i izmenchivost' sel'skokhoziaistvennykh zhivotnykh; sbornik nauchnykh trudov, Pod red. M.F. Lebedeva. Leningrad, Izd-vo "Kolos," 1964. 214 p. (MIRA 17:6)

1. Pushkino. Nauchno-issledovatel'skaya laboratoriya po razvedeniyu sel'skokhozyaystvennykh zhivotnykh.

LEEEDEV, M. N.

Tomatoes

Cultivation of tomato seedlings. Sad i og. no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

LEBEDEV, M

N

N/5

741

.L4

Stroitel(noye proizvodstvo (Construction output, by)
M. N. Lebedev (i dr.) Moskva, Transzheldorizdat, 1951-
v. illus., diagrs., tables.
Lib. has: 1951, 1954.

LEBEDEV, Mikhail Nikolayevich, kandidat tekhnicheskikh nauk; ASHEKO, Sof'ya
Mikhailovna, kandidat tekhnicheskikh nauk; ZMIYENKO, Sergey Mitro-
fanovich, kandidat tekhnicheskikh nauk; KRYUKOV, Georgiy Nikolayevich,
kandidat tekhnicheskikh nauk; SIDOROV, Nikolay Nikolayevich, kandidat
tekhnicheskikh nauk; PAUL', V.P., inzhener, redaktor; YUDZON, D.M.,
tekhnicheskiy redaktor

[Building] Stroitel'noe proizvodstvo. Pod red. M.N. Lebedeva. 2-e
perer. izd. Moskva, Gos. transportnoe zheleznodor. izd-vo, 1954.
489 p.

(Building)

LEBEDEV, Mikhail Nikolayevich

Leningrad Order of Lenin Inst of Engineers of Railroad Transport imeni Obraztsov. Academic degree of Doctor of Technical Sciences, based on his defense, 14 April 1954, in the Council of the Leningrad Order of Labor Red Banner Engineering-Construction Inst, of his dissertation entitled: "Fundamentals of typing industrial gravel enterprises".

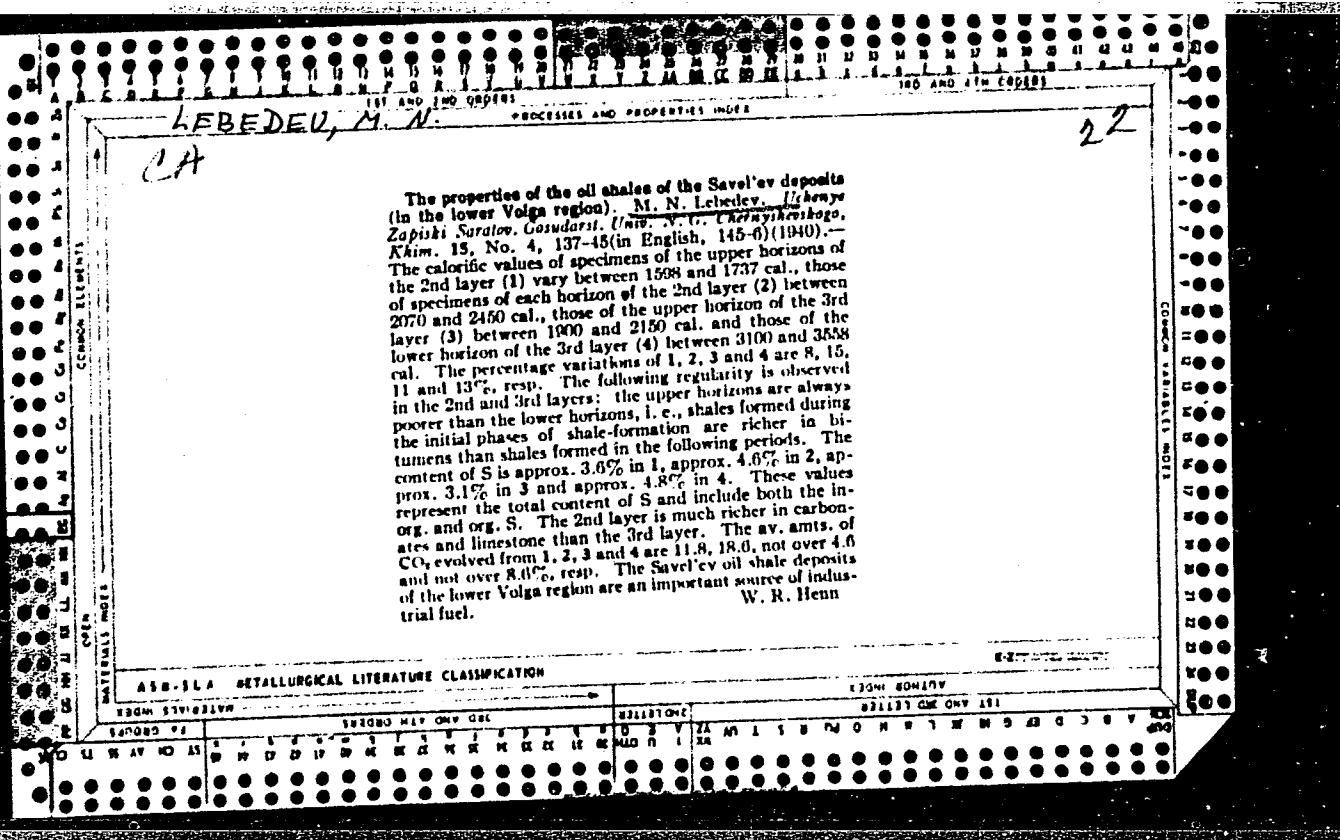
Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 9, 16 April 55, Byulleten' MVO SSSR, No. 14, Jul 56, Moscow, pp 4-22, Uncl. JPRS/NY-429

LEBEDEV, Mikhail Nikolayevich, prof.; SHADRIN, Nikolay Aleksandrovich, prof.; KRYUKOV, Georgiy Nikolayevich, dotsent; MOLLOT, Aleksandr Georgiyevich, dotsent; PETRUKOVICH, A.A., inzh.; PAL'CHUN, P.S., inzh., retsenzent; SOKOLOV, F.G., inzh., retsenzent; EYGEL', I.Yu., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Railroad surveying and construction] Izyskaniia i postroika zheleznykh dorog. By M.N. Lebedev i dr. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniiia. Pt.2. [Railroad construction] Postroika zheleznykh dorog. 1961. 319 p. (MIRA 14:8)

(Railroads--Construction)



LEBEDEV, M.N.

Full ⁵⁰⁴. OIL FROM GASIFICATION OF SAVLEV SHALE. Doderov, Ya.Ya.,
Lebedev, M.N., and Maslennikova, N.F. (Nauch. Ehhegad. Saratov. Univ. (Sci.
Am. Saratov Univ.), 1956 (Pub. 1955), 483, 484; abstr. in Ref. Zh. Khim.

(Ref. J. Chem., Moscow), 1956, (19), 6254). The acid portion extracted from
the oil from a commercial generator with steam-oxygen blast, by treatment with
petroleum ether, was separated into phenols and asphaltenes. Various fractions
of phenols were identified by condensation of sodium phenolates with
monochloracetic acid, and phenols by the composition and melting point of the
phenoxyacetic acid with which they corresponded. In the phenolic portion of the
165-190°C fraction there were m- and p- cresols and 2, -3- naphthoquinone. In
the 190-210°C fraction there were 2, -3-, 4- methoxyphenols.

LEBEDEV, M. N.

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62543

Author: Dodonov, Ya. Ya., Lebedev, M. N., Maslennikova, N. P.

Institution: None

Title: Investigation of Gasification Tar of Savel'yevsk Shale

Original

Periodical: Nauch. yezhegodnik za 1954 g., Saratovsk. un-t, Saratov, 1955,
483-484

Abstract: Acid portion recovered from tar produced by gasification of Savel'yevsk shale in an industrial gas generator with steam oxygen blowing, by treatment with petroleum ether was divided into phenols and asphaltenes. Narrow phenol fractions were identified by condensation of Na-phenolates with monochloracetic acid and from the composition of phenoxyacetic acid and its melting point the corresponding phenols were determined. In the phenolic portion of the 165-190° fraction was ascertained the presence of p- and m-cresol and 2,3-methoxyphenols and in the 190-270° fraction were found 2,3,4-methoxyphenols.

Card 1/1

LEBEDEV, M.N.

USSR /Chemical Technology. Chemical Products
and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31844

Author : Dodonov Ya. Ya., Lebedev M.N., Maslennikova N.P.

Title : Investigation of the Tar of Gasification of
Savel'yevskiy Shale

Orig Pub: Sb.: Goryuchiye slantsy. Khimiya i tekhnologiya,
No 2. Tallin, Est. gos. izd-vo, 1956, 125-129

Abstract: See also RZhKhim, 1956, 62543

Card 1/1

LEBEDEV, M.N.; MASLENNIKOVA, N.P.

Study of phenols in Savelyevka shale oils. Uch.zap. SGU 75:19-
20 '62. (MIRA 17:3)

LEBEDEV, M. P.

USSR/Geophysics - Canal Construction

Jun 51

"The Tractor Aggregate SUTA-1 (T-106) in Irrigation-Conservation Works," I. G. Arykin, Cand Tech Sci, M. P. Lebedev, V. Ye. Yuzvuk, Engineers

"Gidrotekh i Meliorat" No 6, pp 71-75

Describe tech characteristics of so-called universal tractor aggregate SUTA-1 (T-106), e.g., 80 hp, wt of dragline with tractor and bulldozer: 18,200 kg, grab bucket with tractor and bulldozer: 18,400 kg, piledriver with tractor and bulldozer: 18,600 kg, crane with tractor and bulldozer: 17,500 kg. Now it is being proposed that shovel be added to attachments of this tractor to increase its usefulness.

186T37

LEBEDEV, M. P.

Ekspluatatsiya universal'nogo traktornogo agregata SUTA-1 (T-160)
Operation of the universal tractor unit SUTA-1 (T-160). Moskva,
Goslesbumizdat, 1953. 96 p.

SOL Monthly List of Russian Accessions, Vol. 6 No. 9 December 1953

LEBEDEV M. P.

ARYKIN, Ivan Grigor'yevich, kand.tekhn.nauk; VOSKRESENSKIY, Yuliy Sergeyevich, nauchnyy sotrudnik; LEBEDEV, Mikhail Petrovich, nauchnyy sotrudnik; SOKOLOV, Aleksandr Vasil'yevich, inzh.-konstruktor; FREYMANN, Isay Yefimovich, inzh.-konstruktor. Prinimali uchastiye: POPOV, A.I., kand.tekhn.nauk; YAKOVLEV, Ye.V., inzh.-konstruktor. LAZAREV, M.P., red.; POLTEVA, B.Kh., red.izd-va; PROKOF'YEVA, L.N., tekhn.red.

[Dredging streams used in timber rafting with the ZRS-1 dredging pump] Proizvodstvo dnoуглубitel'nykh rabot na lesosplavnykh putiakh zemlesosno-refulernym snariadom ZRS-1. Moskva, Goslesbumizdat, 1959. 111 p.

(MIRA 13:1)

(Dredging machinery)

FABRI, Valer [Fabry, Valer]; LEBEDEV, M.P., kand.yuridich.nauk [translator];
TVERDOV, A.A., red.; KOSAREVA, Ye.N., tekhn.red.; SHCHEDRINA, N.L.,
tekhn.red.

[Legal status of agricultural cooperatives in Czechoslovakia]
Sel'skokhozisistvenno-kooperativnoe pravo Chekhoslovakii. Moskva,
Gos.izd-vo iurid.lit-ry, 1960. 415 p. Translated from the Czech.
(MIRA 13:9)

(Czechoslovakia--Agricultural laws and legislation)
(Czechoslovakia--Agriculture, Cooperative)

ARYKIN, Ivan Grigor'yevich; LEBEDEV, Mikhail Petrovich; YUZVUK, Vladimir
Yefimovich [deceased]; LAZAREV, M.P., red.; KONARDOVA, T.F.,
red. izd-va; LOBANKOVA, R.Ye., tekhn. red.

[Organization and carrying out of irrigation and construction
work on rivers used for lumber floating] Organizatsiia i pro-
izvodstvo meliorativno-stroitel'nykh rabot na splavnykh putiakh.
Moskva, Goslesbumizdat, 1961. 95 p. (MIRA 15:1)
(Lumber---Transportation) (Hydraulic engineering)

LEBEDEV, M.P., gornyy inzh.; VALUKHIN, Yu.K., gornyy inzh.;
POPOV, N.G., gornyy inzh.

Using diamond drill holes for breaking ore. Gor. zhur. no. 6:37-41
Je '61. (MIRA 14:6)

1. TSentral'nyy nauchno-issledovatel'skiy gornorazvedochnyy
institut, Moskva.
(Boring) (Blasting)

LEBEDEV, M.S.

Clinical picture and treatment of extrauterine pregnancy from data
of the Zhukovskii Hospital in Moscow Province. Akush. i gin. 34
no.3:90-91 My-Je '58. (MIRA 11:6)

1. Iz ginekologicheskogo otdeleniya (zav. M.S.Lebedev) Zhukovskoy
gorodskoy bol'nitsy (glavnnyy vrach - zasluzhennyy vrach RSFSR Ye.A.
Kikabidze)

(PREGNANCY, ECTOPIC
hosp.statist. (Rus))

LEBEDEV, M.S.

Some methods for treating mental disorders in hypertension.
Trudy LSGMI 40:215-223 '58. (MIRA 12:8)

1. Kafedra psichiatrii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. V.K. Fedorov).

(HYPERTENSION, compl. disord., ther. (Rus))

(MENTAL DISORDERS, etiol. & pathogen. hypertension, ther. (Rus))

VILYANSKIY, M.P., kand.med.nauk; LEBEDEV, M.S.; SHVANKOVA, Z.P.

Case of acute hemorrhage in chorioepithelioma. Akush. i gin.
35 no.3:122-123 My-Je '59. (MIRA 12:8)

1. Iz bcl'nitsy (glavnnyy vrach - zasluzhennyj vrach RSFSR
Ye.A.Kikabidze), g. Zhukovskiy Moskovskoy oblasti.
(CHORIOCARCINOMA, case reports
uterus, with acute hemorrh. (Rus))
(UTERUS NEOPIASMS, case reports
choriocarcinoma, with acute hemorrh. (Rus))

KOMMISSAROV, V.I., and M.S. LEBEDEV

Sverlovshchik. Odobreno v kachestve ucheb. posobiia dlia shkol fabrichno zavodskogo obucheniiia. Moskva, Trudrezervizdat, 1950.

Title tr.: The borer. Approved as a textbook for industrial training schools.

TJ1260.K6 1950

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

~~REF ID: A6512~~
IPEDEV, M. S.

Shlifcvarie metallov. Molova, Masnitsa, 1951. 224 p.

Grinding of metals.

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

LEBEDEV, MIKHAIL SERGEEVICH.

Brouseni kovy; prirucka pro zvyseni kvalifikace brusicu. [Nydr. 1. Z ruskeho originalu
prel. V. Vilinskij a B. Bores] Praha, Prace; Vydatelstvo ROH, 1952. 173 p.
(Technické prirucky Prace, av. 124) [Metal grinding; a handbook for increasing
the qualifications of grinders. illus., subject index.]

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March 1954,
Uncl.